IP Link® Device Interface Communication Sheet

This document provides additional assistance with wiring your Extron IP Link enabled product to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific Extron IP Link enabled product or the controlled device manufacturer supplied documentation.

Device Specifications:

Device Type:	Display
Manufacturer:	Sharp
Firmware Version:	N/A
Model(s):	LC-46LE940X, LC-52LE940X, LC-60LE940X, LC-80LE940X

Version History:

Driver Version	Date	IP Link Compiler	GC Version	Notes
1	10/24/2013	1.6.0	3.5.1	Initial version.

Driver Notes:

TV Direct Channel only supports channels from 1-99.
D-TV Direct Channel only supports channels from 1-9999.
Steps to entering a channel:

- First select either TV or D-TV.
- Enter a valid number within the range.
- Press enter to execute.

A channel can be cleared if it was inputted incorrectly.

When input 5 is selected, you can switch between component and video using the Component and Video input selections.

Control Commands & States:

3D Mode	2D to 3D	SBS	TAB
	3D to 2D	3D Auto	2D Auto
	Off		
Aspect Ratio	Normal (AV)	Zoom 14:9	Panorama
	Full (AV)	Cinema 16:9	Cinema 14:9
	Normal (PC)	Cinema	Full (PC)
	Dot by Dot	Underscan	Toggle
Channel DTV (Step)	Up	Down	
Channel Number	1	2	3
	4	5	6
	7	8	9
	0	Enter	Clear
Channel TV (Step)	Up	Down	
Input	TV	DTV	HDMI1
	HDMI2	HDMI3	HDMI4
	Input 5	PC	Input 6
	Component	Video	Toggle
Mute	On	Off	Toggle
Power Control	On	Off	
Volume (Discrete)	0 to 100 in steps of 1		

Status Available:

Aspect Ratio	Normal (AV)	Zoom 14:9	Panorama
	Full (AV)	Cinema 16:9	Cinema 14:9
	Normal (PC)	Cinema	Full (PC)
	Dot by Dot	Underscan	
Connection Status	Connected	Disconnected	
Input	HDMI1	HDMI2	HDMI3
	HDMI4	Input 5	Input 6
	PC		
Mute	On	Off	
Power Control	On	Off	
Volume (Discrete)	0 to 100 in steps of 1		

MLC60 Series Supported Commands:

3D Mode	2D to 3D	SBS	TAB
	3D to 2D	3D Auto	2D Auto
	Off		
Aspect Ratio	Normal (AV)	Zoom 14:9	Panorama
	Full (AV)	Cinema 16:9	Cinema 14:9
	Normal (PC)	Cinema	Full (PC)
	Dot by Dot	Underscan	Toggle
Channel DTV (Step)	Up	Down	
Channel TV (Step)	Up	Down	
Input	TV	DTV	HDMI1
	HDMI2	HDMI3	HDMI4
	Input 5	PC	Input 6
	Component	Video	Toggle
Mute	On	Off	Toggle
Power Control	On	Off	
Volume (Discrete)	0 to 100 in steps of 1		

Cable and Adapter Requirements:

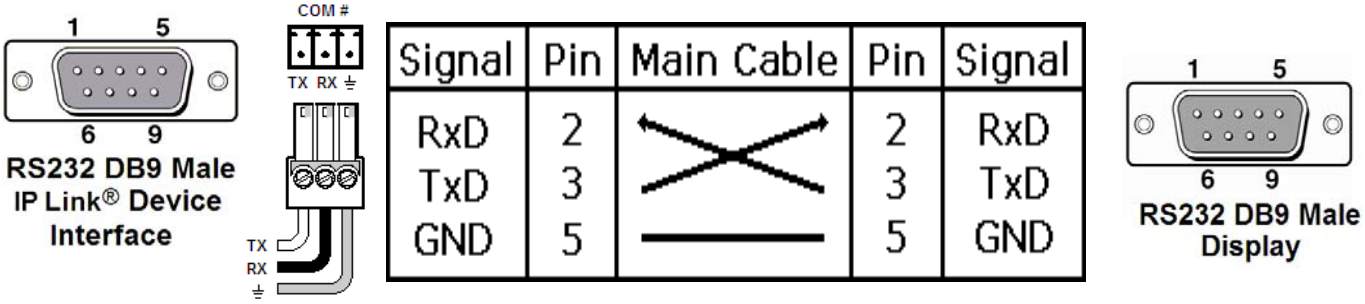
F/F RS-232 DB9 Null Modem Cable.

Notes for the Device:

Serial communication:

Port Type:	RS-232	**Parity:**	None
Baud Rate:	9600	**Stop Bits:**	1
Data Bits:	8	**Flow Control:**	None

Pin Assignments Diagram:



Note: Captive screw connector may also be used as a serial connection.

General Notes: